

What Is Claimed Is:

1. A running control device for an industrial vehicle comprising:
  - an engine;
  - an operation amount detection sensor which detects an operation amount of accelerator means for controlling engine revolutions;
  - a transmission which has a forward clutch and reverse clutch that respectively switch a direction of travel of the vehicle to a forward direction and reverse direction, and which transmits a driving torque of the engine to driving wheels via the forward clutch or reverse clutch;
  - a brake which applies braking to the vehicle; and
  - a controller which controls an engaging force of the forward clutch and reverse clutch and a braking force of the brake during the running of the vehicle, and which controls the engine revolutions on the basis of the operation amount detected by the operation amount detection sensor;

wherein the controller simultaneously controls the engine revolutions, the engaging force of the forward clutch and reverse clutch and the braking force of the brake, on the basis of the operation amount detected by the operation amount detection sensor.
2. The running control device for an industrial vehicle according to claim 1, wherein a vehicle speed sensor that detects a vehicle speed is provided, and the controller further stops, on the basis of the operation amount, the simultaneous control of the engine revolutions, the engaging force of the forward clutch and reverse clutch and the braking force of the brake when the vehicle speed detected by the vehicle speed sensor exceeds a specified first reference speed.
3. The running control device for an industrial vehicle according to claim 1 or claim 2, wherein, the controller varies command value curves of the engine revolutions, the

engaging force of the forward clutch and reverse clutch and the braking force of the brake that correspond to the operation amount so that the vehicle driving force generated by the engine revolutions, the engaging force of the forward clutch and reverse clutch and the braking force of the brake that correspond to the operation amount increases when the operation amount exceeds a specified value, and determines and outputs respective command values for the engine revolutions, the engaging force of the forward clutch and reverse clutch and the braking force of the brake that correspond to the operation amount on the basis of the command value curves following the variation.

4. The running control device for an industrial vehicle according to claim 3, wherein the controller stops the variation of the command value curves when the vehicle speed exceeds a specified second reference speed, holds final command value curves, and determines the respective command values on the basis of the final command value curves.